fiire
CHIEF

FIIRE REMOTE CONTROL UNIT
User Manual

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Introduction

This users' manual describes the operation of the Fiire Chief -- Remote Control Unit
(RCU) 4-in-1 (3 IR devices + 1 RF device). The RCU contains an embedded micro
gyro for motion sensing and in-air control of floating cursor. This RCU features IR code
database and IR learning capabilities to universally control standard home theater
devices such as TVs, VCRs, Digital Video Recorders (DVR), DVD players, CD players,
cable/SAT boxes, etc.

The RCU is also equipped with a 2.4 GHz RF transceiver to send cursor movement
information and other commands to the Fiire System via a USB transceiver. The radio
frequency (RF) transceiver delivers a range of up to 100 feet with no line-of-sight
requirement. The 800 possible channels of the RF transceiver provide high resistance to
interference from other radio devices.

**Before using the Fiire Chief press the connect button on the remote to bind it to the
closest USB dongle. Do not press the connect button on the dongle.**

Battery Installation and Information

The Fiire Chief RCU requires two AA Alkaline batteries. To install the batteries:
1. Remove the battery compartment cover.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery
   compartment.
3. Replace the battery compartment cover and snap it into place.
Note: Reprogramming may be required after batteries are replaced.

Battery Saver

The RCU saves battery power by automatically going into a low-power state if no button
is pressed after a few seconds.

Product Registration Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase.
Attach it here and record the serial number in case you need it. The serial number is
located on the product.

Model Number _____

Serial Number _____ Purchase Date _____

Dealer/Address/Phone _____

Gyro Operation

The RCU provides in-air control of the Fiire system's cursor via patented gyroscopic motion sensing technology. This means mouse-like cursor control, from anywhere in the room, without the need of a flat surface.

The FiireChief controls both the FiireEngine and FiireStation using RF wireless. There is no line-of-sight requirement so you don't have to point the RCU at the Fiire system you are controlling. Remember the following things when using the in-air cursor control feature of the RCU:

• You can control every device in your home using only the 3 buttons in the middle and simple gestural motions. The right button is for lights & volume. Press it and wave the remote up and down to move the cursor into the yellow arrows to adjust the lights, or move left and right into the blue arrows to adjust the volume. Tap OK when the volume is at the desired level.

Or press and hold the button, and don't let go while you move into the blue arrows and keep the button held down for absolute positioning. Now moving your hand 45 degrees to the left is mute, and 45 degrees to the right is full blast. Let go of the button when it's at the desired level.

The left button replaces all your media control. Press it and move up and down for the 'skip' action, such as changing channels while watching TV, tracks on a CD, or chapters on a DVD. The faster you move, the faster the media skips, with your guide data and chapter list presented visually.

Move left and right for the speed control, like fast forward and rewind. You can tap and release the button while you move left and right for relative control, meaning the further you move your hand, the faster the speed changes. When the pointer is in the middle of the screen the media is paused. The further you move to the right the faster it goes, starting with slow motion and going to very fast 400x forward. Move the cursor to the left of center to make the media go backwards, the further left
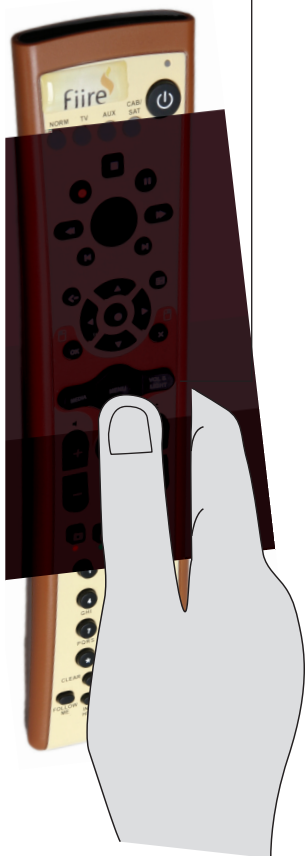
the faster it goes. Or press and hold the button, and don't let go while you move into the blue arrows and keep the button held down for absolute positioning.

Now moving your hand 45 degrees to the left is the beginning of the media, and 45 degrees right is the end. Move back and forth until you find the part you want and then let go of the button to resume normal playback.

• When in LinuxMCE the OK button selects whatever object is highlighted on screen, and the X button makes whatever menu is on screen go away.
When in a PC application, like KDE, the OK button is the same as a left-mouse click, and the X button is the same as a right-mouse click.

• When you press one of the 3 gyro buttons the gyro is activated and the on-screen pointer is enabled. To reposition your hand press and hold the gyro 'stop' button to freeze the pointer. Double-click it to de-activate the gyro. Then press it again, or press one of the 3 gyro buttons, to re-activate it.

• Move the cursor by flexing your wrist, not your arm or body, much as you would with a flashlight; side to side and up and down. Placing your arm on an armrest or on your lap will make this motion more comfortable.

• The RF Transmit LED indicates when gyro motion or other information is being sent independent of which mode is selected on the RCU.

• A few moments after the Fiire Station starts to boot up a descending sequence of tones will be heard from the inside Fiire system. Then you can press the 'AV menu' button on the bottom of Fiire Chief a few times, until you hear a confirmation beep, which indicates that the AV Wizard will start. The AV Wizard default video settings are 640x480 on VGA port. When these settings are applied a melody beep will be heard. If you don't use a VGA video connector and
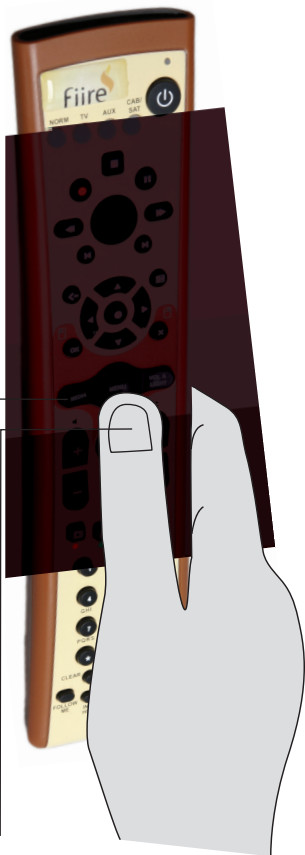
you see nothing on the screen, press these shortcuts:
Note: As soon as you choose one option below, wait few seconds to finish applying the new settings. For a succesful resolution apply an melody beep will be heard. If you see nothing on the screen (i.e. black screen) and you still hear the melody beep, it means that you have to try another shortcut until you get video on the screen.
1 is for 640x480 on DVI port
2 is for 640x480 on VGA port
3 is for 640x480 on Component
4 is for 640x480 on S-video
5 is for 640x480 on Composite
As soon as you get video on the screen, select and press 'Continue'.

Product Diagram

Button Cluster Locations	Button Cluster	Function
	A Remote Control Unit mode selection and power	Selects device mode (PC, TV, CAB/SAT, AUX). Powers on/off selected device.
	B Transport control	AV control for selected transport or for Fiire System
	C Menu navigation and mouse buttons	Menu navigation: UP, DOWN, LEFT, RIGHT and SELECT (similar to OK button). Includes standard LEFT and RIGHT mouse buttons, OK and X, BACK and TV GUIDE.
	D Fiire main menu, Media control, Volume and Ligths control, Activate Gyro	Center button brings the MAIN MENU of Fiire. The right button is for LIGHTS & VOLUME. The left button replaces all your MEDIA control. Each one of these buttons also activates the gyro.
	E Volume and Channel control and Mute	VOLUME up and down, CHANNEL up and down. Volume mute.
	F Shortcuts	Shortcuts buttons include: PICTURES, RECORDED TV, MUSIC and VIDEOS. Each of these lists can be scrolled by waving the hand up and down.
	G Alphanumeric keypad	0-9 keys with alpha characters, plus * and #, ⌴ CLEAR and ENTER
	H Setup and Device Control	FOLLOW ME, INFO&HELP, CONNECT, INPUT, AV MENU

RCU Mode Selection

	A	Puts RCU into PC control mode for communicating with Fiire via RF protocol.
	B	Puts RCU into TV control mode for communicating with TV via IR protocol.
C	Puts RCU into AUX control mode for communicating with additional learned device via IR protocol.	
D	Puts RCU into CAB/SAT control mode for communicating with cable or satellite set-top box via IR protocol.	
E	PC, TV, AUX or CAB/SAT mode: Powers on/off the selected device. PC Mode: If the Fiire system is active, the first button press issues a go to Power menu and the second button press issues a power down command. If the system is in inactive mode, a button press may awaken.	
F	Transmit LED indicator for RF transmission	

	TV, AUX orCAB/SATmode	Fiire Mode
A	Puts selected device into Stop mode, if supported	Stops media playback and brings the main menu in front
B	Puts selected device into Pause mode, if supported	First button press pauses the media at present position. Subsequent button presses toggles between pause and playback at present position pointer.
C	Puts selected device into Fast Forward mode, if supported	First press speeds up the time base of the media stream to the first FF value (2X). Subsequent button presses cycle through the FF speed values looping through 1X (normal speed) 4X, 6X, 8X, 16X, 32X, 64X.
D	Skip command, if supported by selected device	Skips ahead an increment: CD and Playlists skip to next song. DVD skips to next chapter.
E	Puts selected device into Play mode, if supported	Start (if paused, continue) playback of media at present position.
F	Replay command, if supported by selected device	Move back the position an increment: CD and Playlist: skips back to previous song. DVD: skips back to previous chapter.
G	Puts selected device into Rewind mode, if supported	First press speeds up the time base and reverses direction of the media stream to the first rewind value (2X). Second press cycles through the RWD speed values looping through 1X (normal speed) 4X, 6X, 8X, 16X, 32X, 64X.
H	Puts selected device into Record mode, if supported	Records the TV show to disk. Starts recording at the beginning of the show as defined by on-screen TV program guide.
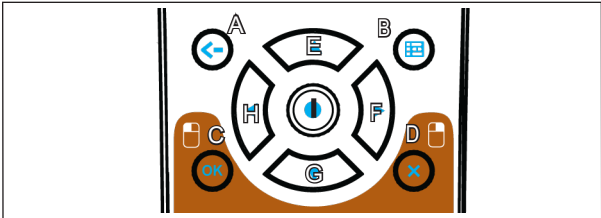
A	No action, or as defined by selected device	Goes back one screen to previous location
B	No action, or as defined by selected device	Invokes the on-screen TV program guide
C	No action, or as defined by selected device	Simulates a left-mouse button-click; OK button selects whatever object is highlighted on screen;
D	No action, or as defined by selected device	Simulates a right-mouse button-click; Cancel button makes whatever menu go away;
E	Menu Navigation Up	Moves the focus point (highlights another object) up one location
F	Menu Navigation Right	Moves focus point right one position
G	Menu Navigation Down	Moves the focus point down one location
H	Menu Navigation Left	Moves focus point left one position
I	Performs action indicated by focus point	Performs action indicated by focus point; Select whatever object is highlighted on screen
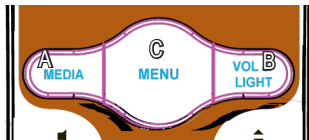
A	Media button	
B	Volume&Lights button	
C	Menu button	
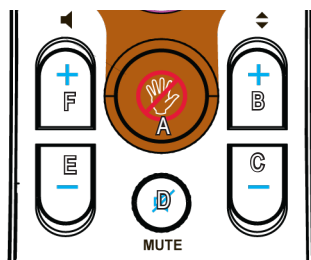
	TV, AUX orCAB/SATmode	Fiire Mode
A	Gyro stop	To reposition your hand press and hold the gyro 'stop' button to freeze the pointer. Double-click it to de-activate the gyro. Then press it again, or press one of the 3 gyro buttons, to re-activate it.
B	Increment the current channel by 1	Increment the current channel by 1. Move one position up in playlist.
C	Decrement the current channel by 1	Decrement the current channel by 1. Move one position down in playlist.
D	Mute selected device, if applicable	Mute the volume, toggle mute state.
E	Decrement the current volume by 1 unit	Decrement the current volume by 1 unit. If muted, un-mute the volume first.
F	Increment the current volume by 1 unit	Increment the current volume by 1 unit. If muted, un-mute the volume first.

Fiire Shortcut Buttons

A	Acts as a shortcut to the "Pictures"
B	Acts as a shortcut to the "Recorded TV"
C	Acts as a shortcut to the "Music"
D	Acts as a shortcut to the "Videos"

Numeric Keypad

	TV, AUX or CAB/SAT mode	Fiire Mode
A	Standard 1-9, alphanumeric	Standard 1-9, alphanumeric
B	Inserts a * symbol, if supported by the selected device	*
C	Inserts a # symbol, if supported by the selected device	#
D	Clear, if supported by the selected device	Clear
E	Enter, if supported by the selected device	Enter

Follow me, Info&Help, Connect, Input and AV Menu

A	Follow me Press this button when you want to control another Fiire system (like a Fiire Station). You need to have an USB Dongle connected to that Fiire Station too. If you were watching a movie in previous room, the movie will follow you.
B	Info & Help
C	Synchronizes the RF remote with the RF receiver
D	Toggles between TV inputs
E	Brings up the Audio / Video Wizard. When the Fiire System starts (boots up) press this button when you hear a melody beep.

Backlighting

The RCU Mode Selection buttons are backlit. One of these buttons lights up whenever a button is pressed on the remote to indicate which Control Mode the remote is in; PC, TV, AUX, or CAB/SAT. If the backlighting seems dim, the batteries may need to be replaced. There is no backlighting on any other buttons.

ON/OFF Switch

This switch turns the selected device on or off. The device is selected with the RCU Mode Switches; PC, TV, AUX and CAB/SAT.

In the PC mode, this button issues a Go to Power Menu. On the screen you have options for powering off the whole house or only a particular device. At this time the system is in not powering off, it waits for another command. Another press of the Power button will turn the Fiire system off.

If the PC is in powered off, any button pressed on the RCU may wake up the PC.

Receiver Installation

The RCU requires a USB RF transceiver be plugged into a USB port in the Fiire box in order to access RF and gyro functions. The USB extension cable can be used to maximize the range of the RCU by placing the USB RF transceiver away from other electrical components. A USB RF transceiver does not need to be plugged in to use the IR remote functions. See the diagram below.
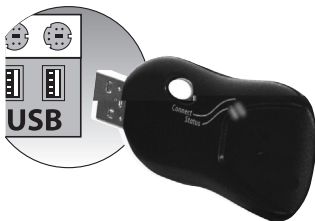
Setting Up and Synchronizing a Gyration GO Mouse or Keyboard and the transceiver

The same transceiver that you used with the Fiire Chief can be used with gyration mouse or keyboard.

The connect button on the transceiver is only used to connect a gyration mouse or keyboard. Don't use the connect button to connect the Fiire Chief. The Fiire chief does an 'one way' connection so you only press the connect button on the Chief and not on the transceiver.

1. Plug the USB RF transceiver into the PC if it hasn't already been done. See the previous section of this document.
2. Press and release the connect button on the USB transceiver. The CONNECT light on the transceiver will flash.
3. Press the CONNECT button on the mouse or keyboard. The CONNECT light on the USB transceiver will stop flashing. They are now connected to your Fiire system. The green STATUS light on the USB transceiver indicates when RF signals are being received from the RCU.

The RCU can be programmed to operate many brands of remote-controllable components such as TVs, VCRs, CD players, DVD players, cable boxes, satellite receivers and other components via the IR functions of the RCU.
The AUX button can be programmed to operate most brands of remote-controllable components: satellite receivers, cable boxes, CDs DVDs, VCRs, DVRs, and other components via the IR functions of the RCU.

To determine whether the universal remote needs to be programmed to operate one of the components connected to your Fiire system, such as TV, do the following:
1. Turn on the component (in this example, a TV).
2. Point the remote at the TV.
3. Press the corresponding component button (in this example, TV).
4. Press ON•OFF to see if the TV responds. If the TV doesn't respond, you must program the remote to operate it.

Programming Methods

There are two ways to program the remote control to operate other components: Automatic Code Search and Direct Entry.

Using Automatic Code Search

The following instructions can be used to program the RCU to operate each of your components. If you want to stop the automatic code search without programming any of your components, press and hold CLEAR (*) until the indicator on the RCU turns off.

1. Turn on the component you want to operate (TV, DVD player, etc.)
2. Press and hold the component button you want to program (TV, AUX, etc.). While holding the component button, press and hold ON/OFF button until the component button on the RCU turns on, then release both buttons.
3. Point the remote at the component.
4. Press and release PLAY, then wait 5 seconds or until the component button stops flashing. At this point the RCU is searching for the correct code to program. If, after 5 seconds, the component you want to operate does not turn off, press PLAY again to tell the RCU to search the next set of codes. Continue pressing and releasing PLAY until the component turns off or you have searched through all of the codes. The component buttons flash when all codes have been searched, the component button turns off, and the RCU exits the Automatic Code Search mode.

If the component you want to control does turn off:
1. Press and release REVERSE, then wait 2 seconds. Repeat this step until the component turns back on.
2. To finish, press and hold STOP until the component button on the RCU turns off. The RCU will automatically exit the Automatic Code Search mode.

Using Direct Entry
1. Turn on the device you want to operate (TV, DVD player, etc.)
2. Look up the brand and code number(s) for the device in the Remote Code List at the end of this booklet.
3. Press and hold the device button you want to program on the RCU.
4. Enter the 4-digit code from the Remote Code List. If all the mode buttons flash, you have either entered an invalid code or the button isn't programmable.Using Direct Entry
5. Release the device button, point the RCU at the device, and then press the ON/OFF button to see if the device responds to the command. If it doesn't, try pressing the component button and then ON/OFF again.

• If you get no response, repeat these steps using the next code listed for your brand, until the device responds to the remote commands.
• If you try all the codes for your device brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

Because the RCU controls more than one component, you must first "tell" it which component you wish to operate. For example, if you wish to operate the TV, you must first press the TV mode button on the RCU to put it in the TV mode.

The RCU stays in the chosen mode until you change it. If the RCU is in the TV mode, you must change the mode in order to operate other components. For example, if you are in the TV mode and you wish to turn off the Cable Box, you must first press the CAB/SAT button then the On/Off button. Return to the TV mode by pressing the TV mode button.

Volume Punch Through allows the VOL+, VOL-, and MUTE keys, when pressed in the TV, AUX, or CAB/SAT modes, to "punch through" to the TV or other device audio, whichever was accessed last. The Volume Punch Through occurs automatically and allows you to control the volume without exiting the current mode.

Learning

The RCU has the ability to learn the commands of other remote control units, such as TV remotes or VCR remotes. This allows the most-used commands on those remotes to be combined on the RCU. These original remote control units are also known as source remotes. Learning is not active in the PC mode.

Learning Tips
1. All learned functions for a mode can be erased if you program a different device to that mode.
2. Perform the learning process in low-light areas because too much ambient light might cause interference with the infrared (IR) signals of the remotes.
3. Use fresh batteries in both the Media Center and PC RCU and the original remote.

Code Learning
Codes from the Remote Code List include basic functionality for each component they control. Once you have programmed in the code for your specific component (using either the Automatic Code Search or Direct Entry method), you can customize the RCU to perform certain functions from your original remote(s) that were not embedded in the preset code. The RCU has the ability to learn and store commands from your original remote(s) under the mode(s) of your choice.

Learning Commands
For the following section, the TV remote control unit will be used as an example. Learning from other types of remotes will be done in a similar way.
1) First press and hold the mode button on the RCU for the component remote you are learning from (the TV button on the RCU, for example) then press and hold the RECORD button on the RCU.
2) Keep pressing both buttons until the device mode button light turns off, flashes, and turns off. Release both buttons.
3) On the RCU, press and release the button where you want to store the new function (the component button turns off and then back on; a short flash).

Note: If you press an invalid button on the remote, the device mode button flashes 4 times to alert you. You'll have to repeat step 3.

4) Position the source remote facing the bottom of the RCU no more than 2 inches apart. Press and hold the button of the source remote that has the functionality you are recording. Keep pressing the button until the RCU device mode button light turns off and back on (the source function has been saved to the TV mode on the RCU).
Note: If all device mode buttons flash 4 times, the function wasn't learned. Try again starting with Step 3.
5) The RCU remains in the "learning mode" so you can continue adding functions to different buttons by repeating steps 3 and 4.
6) Press CLEAR to exit the learning mode.

Remotes should not be more than 2 inches apart

Clearing an Individual Learned Function

To delete a learned button function, use the procedure below.

1. Press and hold the component mode button (the component button lights). Then press and hold the CLEAR button for 3 seconds. Hold both buttons depressed until the component mode button flashes.
2. Release both buttons. The component mode button turns on indicating that the RCU is now in the Clear Learned Function mode for that component.
3. Press and release the button where learning is to be cleared. The component mode button blinks off then back on indicating that the function was cleared successfully.
4. Repeat Steps 1 through 3 until all the buttons' learned functions have been cleared.
   Note: If an invalid button is pressed, the component mode button flashes 4 times, the selected component button stays on, and the RCU remains in Clear Learned Function mode. Repeat Step 3 to continue the clearing process.
5. Press the CLEAR button to return the RCU to normal operation.

Deleting All Learned Functions

To delete all learned functions as once, use the procedure below.

1. Press and hold the CLEAR button (the current component button lights). Then press and hold the ON/OFF button (component button light turns off for 3 seconds, flashes, turns on and off) while continuing to hold the CLEAR button.
2. Release both buttons (current component button turns on).
3. Press any component button to delete all learned functions in all modes. The RCU automatically exits this clearing mode.

Note: Pressing the CLEAR button while in this mode will not delete the learning functions, but it will exit this delete mode.

Troubleshooting

If the IR functions on your RCU don't work properly...

• Something might be between the RCU and the remote sensor on the component. Make sure there is a clear path.
• The RCU may not be aimed directly at the component (TV or VCR) that you're trying to operate.
• The RCU might not be in the correct mode for operating that component. Try pressing the corresponding mode switch (TV, AUX, etc.) then try operating the component with the RCU.
• The batteries in the RCU might be weak, dead, or installed incorrectly. If batteries are weak, the backlighting will be weak on the device mode buttons. In this case, put new batteries in the remote. (Note: if you remove the batteries, you may have to reprogram the remote to operate other components.)
• When using the Learning feature, do the learning process in low light areas to prevent natural light and fluorescent light from interfering with the infrared signals.

If the RF or gyro functions on your RCU don't work properly...

• If the RCU does not appear to be working at all, it may not be connected or synchronized with the USB RF transceiver. Repeat the Setting Up and Synchronizing the Remote and the Transceiver procedure above.
• If, when using the RCU as an in-air cursor control, the cursor is visible on the screen, but shows no movement, the gyro may not be activated. See the Gyro Operation section above to activate the gyro and in-air cursor control.
• If the cursor movement is choppy or erratic, there may be radio interference. Move the USB transceiver away from other electronic devices such as monitor speaker or radios.
• The batteries in the RCU might be weak, dead, or installed incorrectly. If batteries are weak, the backlighting will be weak on the device mode buttons. In this case, put new batteries in the remote. (Note: if you remove the batteries, you may have to reprogram the remote to operate other components.)

Remote Code List

TV

Brand	Codes							
AOC	1005							
Candle	1005							
Citizen	1005							
Colortyme	1005							
Concerto	1005							
Curtis Mathes	1001	1005						
Daewoo	1005							
Daytron	1005							
Dell	1116	1117						
Dimensia	1001							
Dumont	1014							
Electrohome	1005							
Emerson	1005	1018						
Envision	1005							
Fujitsu	1077	1078	1079					
Gateway	1085							
GE	1001	1005	1095					
Gibralter	1014							
Goldstar	1005							
Hallmark	1005							
Hitachi	1005 1111	1011 1114	1016	1086	1087	1101	1104	1106	1107
JC Penney	1001	1005						
Jensen	1005	1058						
JVC	1007	1112						
Kawasho	1005							
Kenwood	1005							
LG	1010	1088						
Luxman	1005							
LXI	1001	1005						
Magnavox	1005	1032	1048	1110				
Marantz	1005							
Megatron	1005							
Memorex	1005							
MGA	1005							
Midland	1014							
Mitsubishi	1005	1067	1070	1098				
MTC	1005							
NAD	1005							
NEC	1005	1080						
Nikko	1005							
Orion	1018							
Panasonic	1013	1033	1035	1036	1065	1066	1089	1100	1115
Philco	1005							
Philips	1022	1031	1034	1040	1046	1050	1059	1062	1109
Pioneer	1005	1021	1023	1060	1090			
Polaroid	1047	1055	1056	1057	1058			
Portland	1005							
Proscan	1001	1095						
Proton	1005							
Pulsar	1014							
Radio Shack/Realistic	1001	1005						

Remote Code List

TV
Brand   Codes

Brand	Codes								
RCA	1000	1001	1005	1009	1082	1095			
Runco	1014								
Sampo	1005								
Samsung	1005	1026	1027	1028	1030	1052	1053	1073	1076
	1091	1092	1103	1108					
Sansui	1018								
Scotch	1005								
Scott	1005								
Sears	1001	1005							
Sharp	1005	1006	1012	1017	1029	1039	1069	1074	
Sony	1015	1019	1025	1037	1041	1045	1049	1054	1061
	1063	1064	1068	1071	1072	1083	1084	1096	1113
Soundesign	1005								
Sylvania	1005								
Techwood	1005								
Teknika	1005								
TMK	1005								
Toshiba	1024	1042	1043	1051	1080	1081	1097	1099	1102
1105									
Vidtech	1005								
Wards	1001	1005							
Yamaha	1005								
Zenith	1002	1003	1004	1008	1014	1020	1038	1044	1075
	1093	1094							

VCR

Brand	Codes					
Akai	2030					
American High	2009					
Canon	2009					
Curtis Mathes	2009					
Emerson	2009	2030				
Fuji	2009					
GE	2009					
Hitachi	2016					
Instant Replay	2009					
JC Penney	2009	2016				
JCL	2009					
Jensen	2016					
JVC	2010	2012	2018	2020	2023	
Kodak	2009					
Magnavox	2009	2026				
Marantz	2009					
Matsushita	2009					
MEI	2009					
Memorex	2009					
MGA	2030					
Minolta	2016					
Mitsubishi	2016	2017	2030			
Motorola	2009					
Olympus	2009					
Panasonic	2004	2005	2008	2009	2014	2025
Pentax	2016					
Philco	2009					

Remote Code List

VCR

Brand	Codes				
Philips	2009	2015			
Philips Magnavox	2015				
Pioneer	2016				
Quasar	2009				
Radio Shack/Realistic	2009				
RCA	2000	2006	2009	2016	2031
Realistic	2009				
Sears	2009	2016			
Sharp	2003	2013	2021	2022	
Singer	2009				
Sony	2001	2007	2012	2019	2024
STS	2009				
Sylvania	2009				
Technics	2009				
Teknika	2009				
Toshiba	2002	2016	2027	2028	2030
Video Concepts	2030				
Wards	2009	2016			
XR-1000	2009				
Zenith	2011	2029			

DVD

Brand	Codes								
Denon	3045	3050	3036						
Go Video	3018	3024							
JBL	3000								
JVC	3042								
LG	3049	3054							
Magnavox	3016	3052							
Nakamichi	3003								
Onkyo	3047	3048	3055						
Panasonic	3008	3012	3017	3036	3037				
Philips	3006	3015	3019	3027					
Pioneer	3011	3013	3014	3031	3044				
RCA	3004	3028	3038						
Samsung	3025	3040							
Sony	3001	3002	3005	3007	3009	3020	3021	3022	3029
	3033	3034	3035	3039	3041	3043	3046	3051	
Toshiba	3010	3023	3026	3030	3032	3053			
Zenith	3049								

DVR

Brand	Codes	
Panasonic	3060	
Philips	3058	
RCA	3056	
Replay	3059	3062
Sony	3057	
Tivo	3056	3061

Remote Code List

AUDIO

Brand	Codes								
Aiwa	4044	4052							
Apex	4105								
BOSE	4100								
Denon	4028	4036	4048	4049	4053	4055	4064	4065	4066
	4068	4069	4072	4073	4074	4078	4080	4081	4088
	4090	4091	4092	4093	4094	4096	4097		
Harman/Kardon	4071								
JBL	4063								
JVC	4031	4033							
Kenwood	4014	4015	4016	4019	4021	4026	4030	4046	
Koss	4103								
LG	4099								
Magnavox	4101								
Marantz	4095								
Onkyo	4020	4023	4027	4039	4043	4045	4050	4051	4060
	4067	4070	4075	4076	4077	4079	4082	4083	4084
	4085	4087	4089	4098	4106				
Panasonic	4056								
Philips	4059	4062							
Pioneer	4004	4007	4013	4022	4024				
Polaroid	4061								
RCA	4034								
Samsung	4102								
Sony	4000	4001	4002	4003	4005	4006	4008	4010	4011
	4012	4018	4032	4035	4041	4058			
Technics	4009	4037	4038	4042	4054	4057			
Toshiba	4086								
Yamaha	4017	4025	4029	4040	4047				
Zenith	4104								

SATELLITE DISH

Brand	Codes							
DirecTV	5014							
DISH Network	5021							
Express Vu	5004							
GE	5001	5002	5018					
Hughes	5008	5030						
JVC	5003							
Mitsubishi	5006							
Panasonic	5007	5027						
Philips	5013	5020	5030					
Pioneer	5028							
Proscan	5001	5002						
RCA	5000	5001	5002	5016	5024	5025	5029	5030
Samsung	5010	5026	5030					
Sony	5009	5015	5019	5022	5023			
Star Choice	5005							
Toshiba	5011	5018						
Zenith	5012	5017						

Remote Code List

CABLE

Brand	Codes			
ABC	5035			
Comcast	5039			
Contec	5034			
GE	5035			
Gemini	5033			
General Instrument	5042			
General Instruments	5032	5035		
Hamlin	5031			
Hitachi	5035			
Jerrold	5032	5035		
Motorola	5038	5039	5043	5044
Oak	5034			
Philips	5033			
Proscan	5035			
RCA	5032			
Rembrandt	5035			
Scientific Atlanta	5036	5037	5040	
Signature	5035			
Sony	5041			
Time Warner	5045			
View Star	5034			

HDTV TUNER

Brand	Code
Panasonic	7001
RCA	7000

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